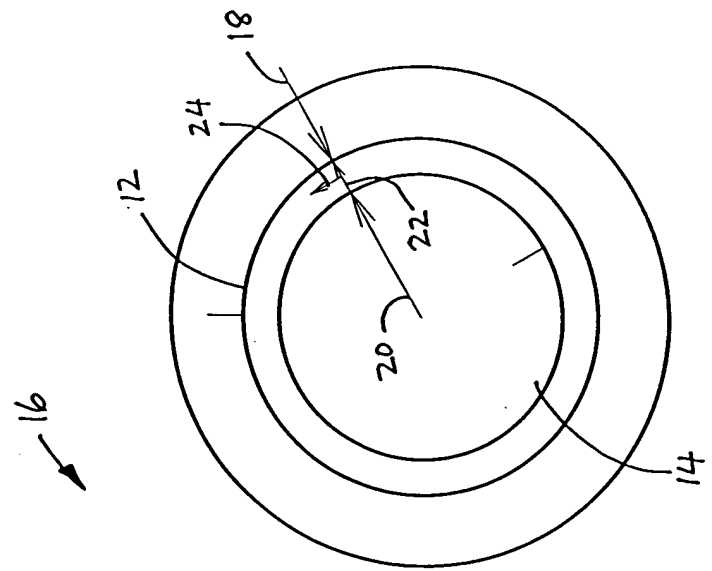


ROTOR FLUX VECTOR MUST POINT AT -90 DEGREES TO REMAIN IN PHASE-LOCK

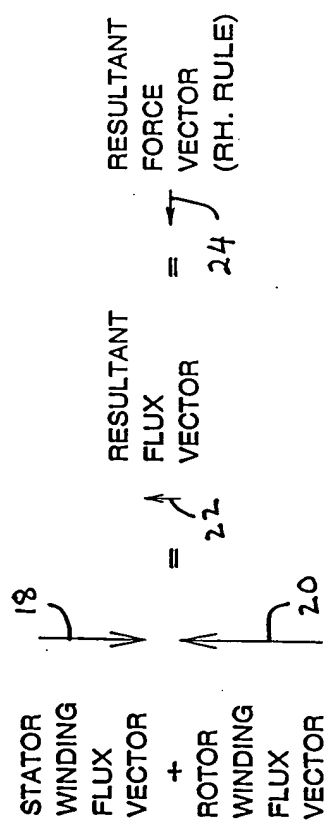
ALL NUMBERS IN DEGREES

FIG. 1



EXAMPLE OF ROTOR FLUX VECTOR MAGNITUDE CALCULATION

CASE:
STATOR WINDING FLUX VECTOR MAGNITUDE 3 UNITS
ROTOR WINDING FLUX VECTOR MAGNITUDE 4 UNITS



ROTOR WILL ACCELERATE COUNTERCLOCKWISE

FIG. 2

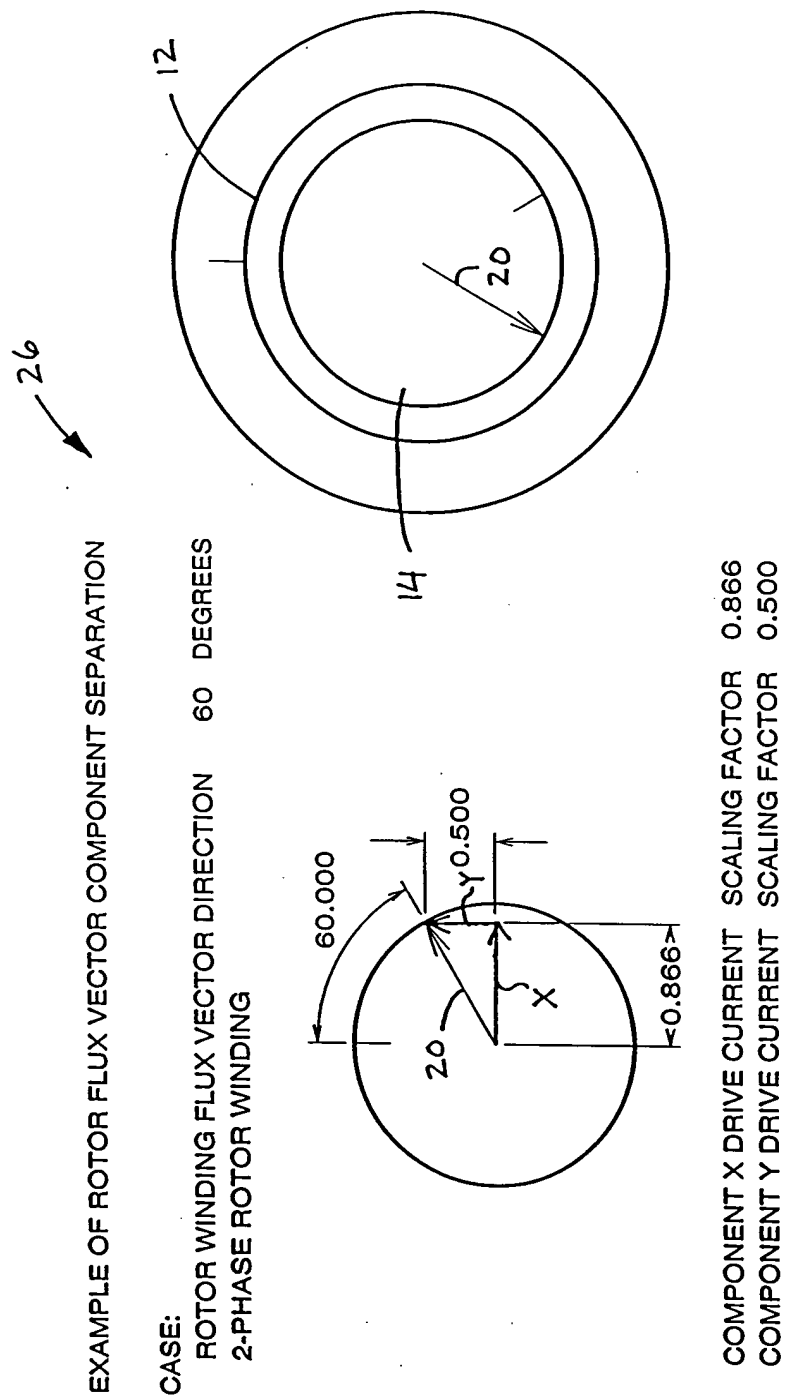
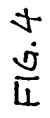


FIG. 3



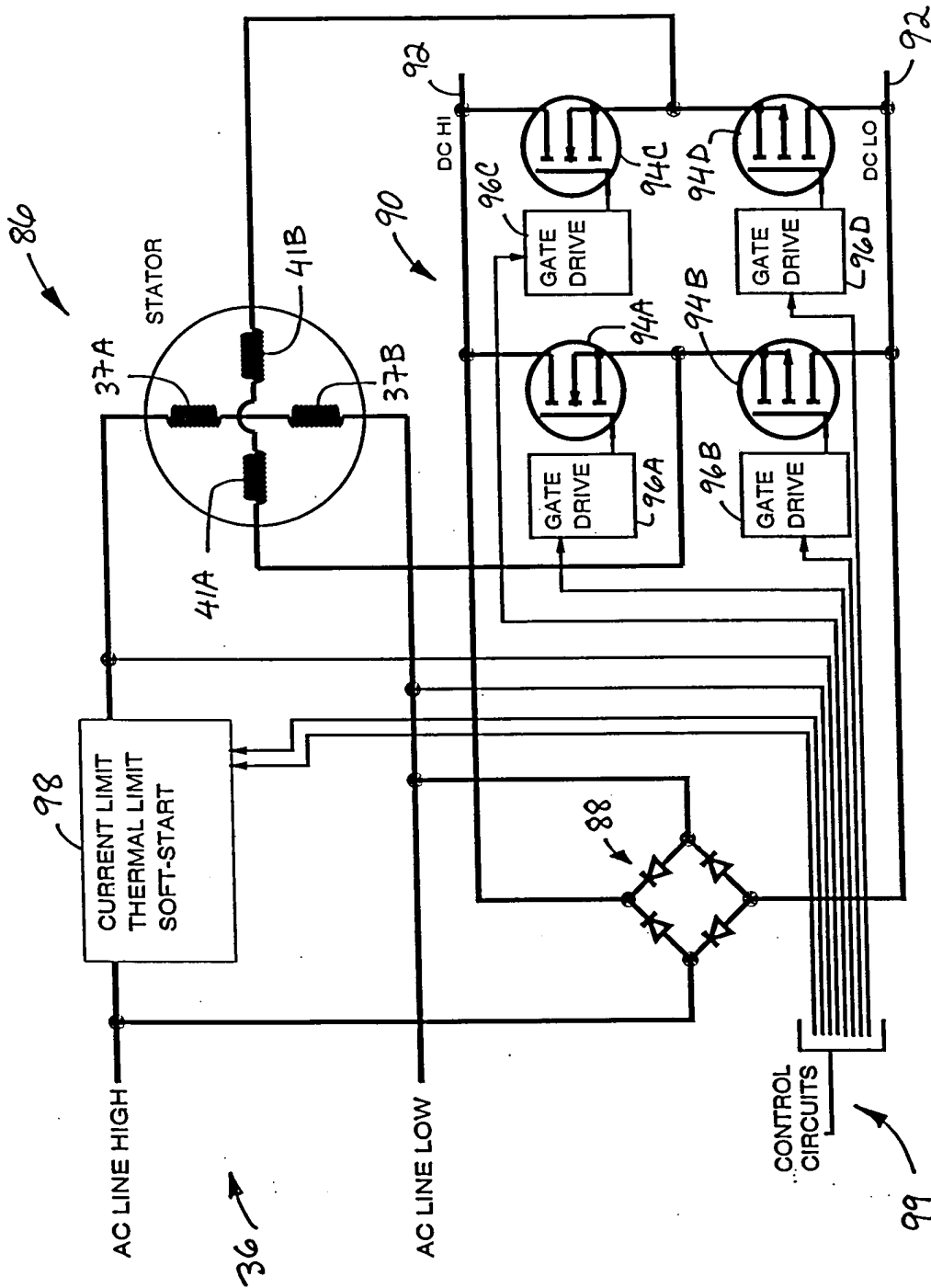


FIG. 5

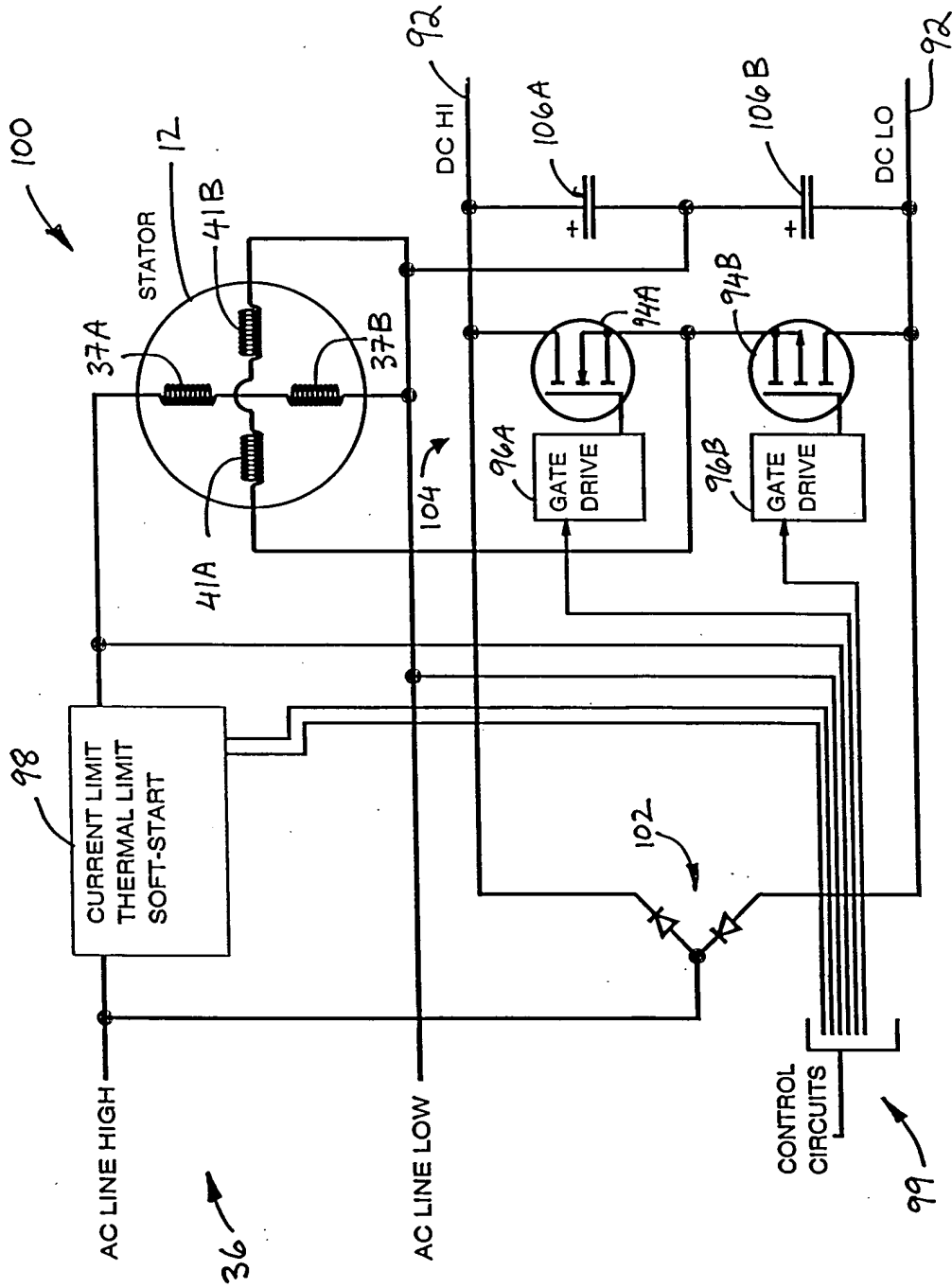


FIG. 6

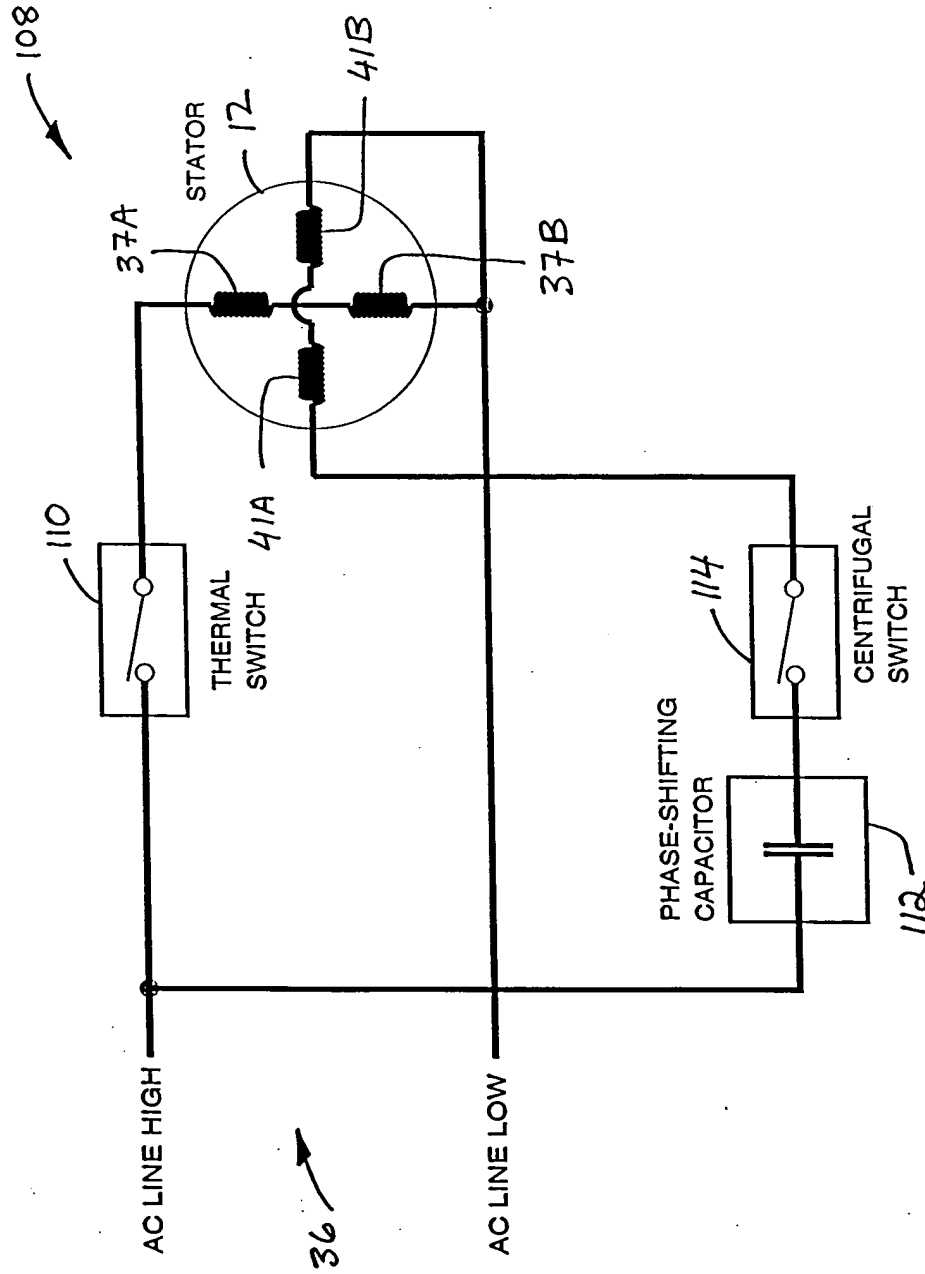


FIG. 7

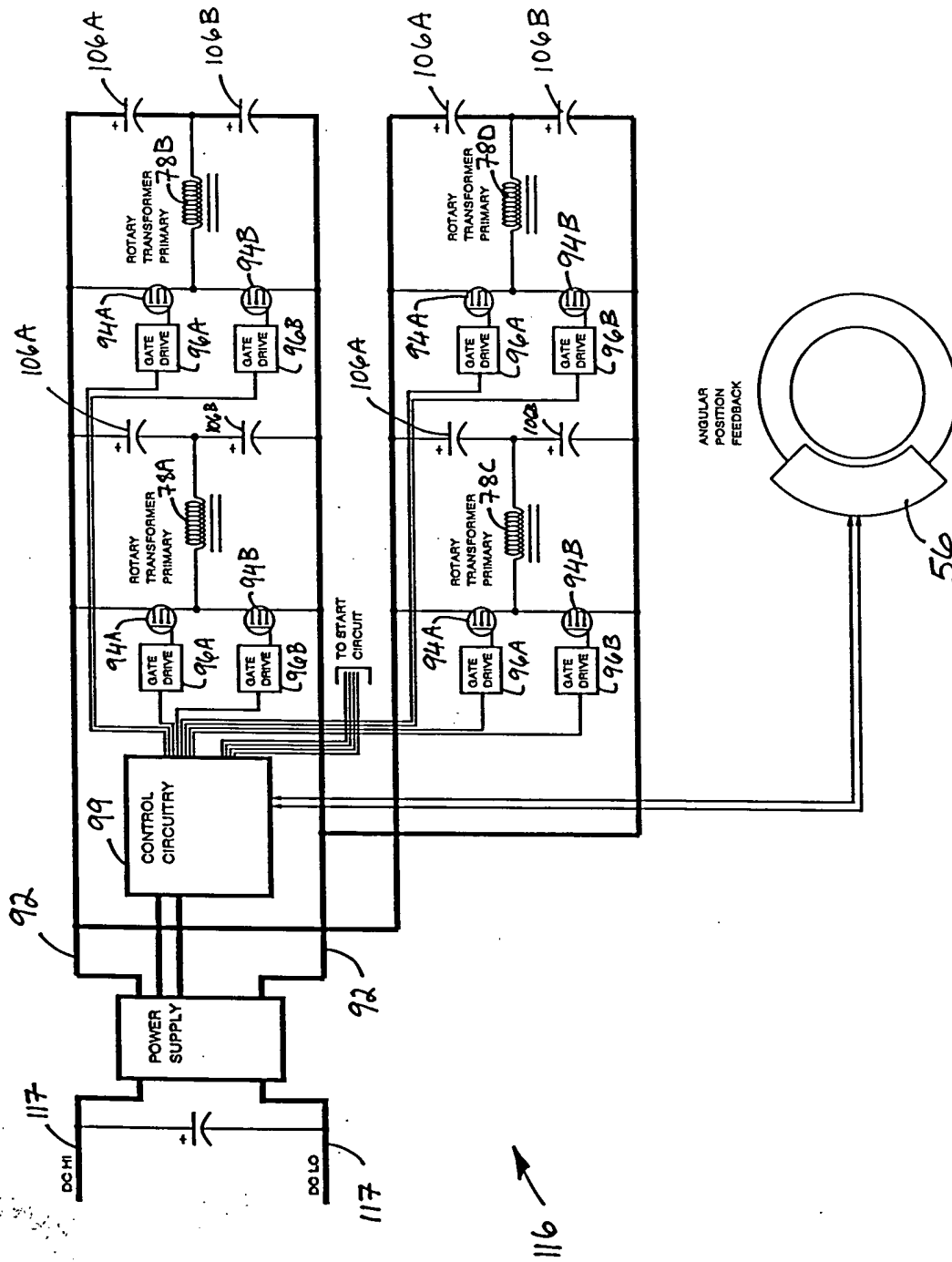
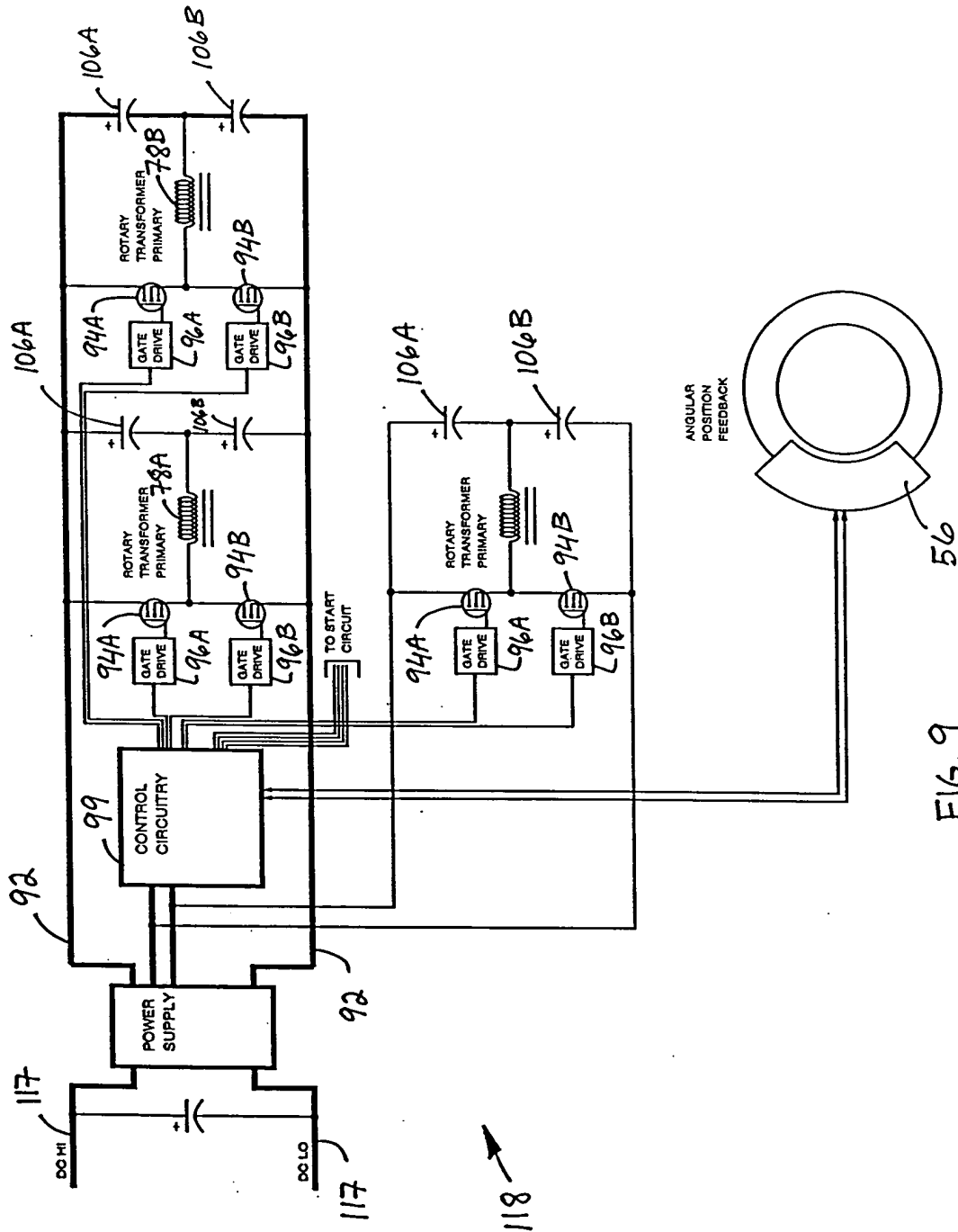
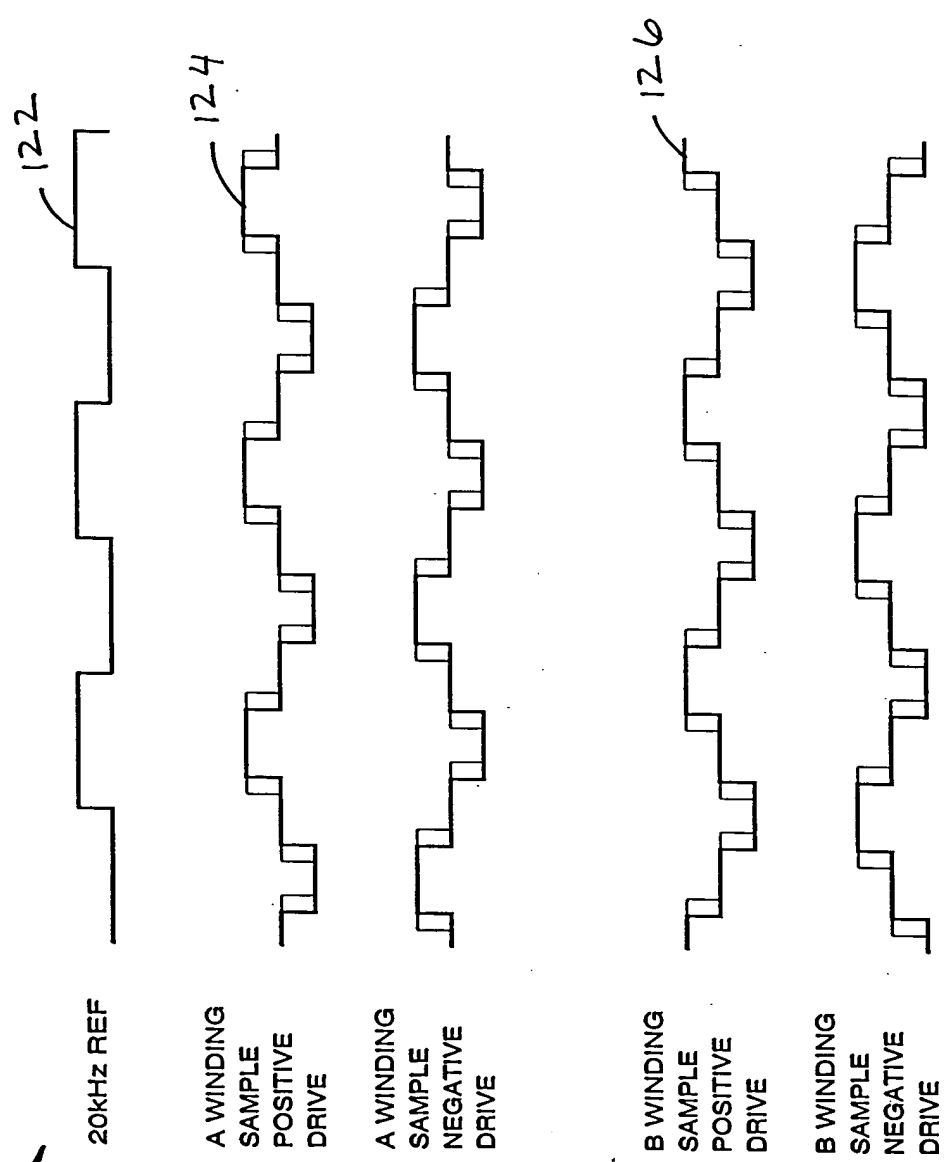


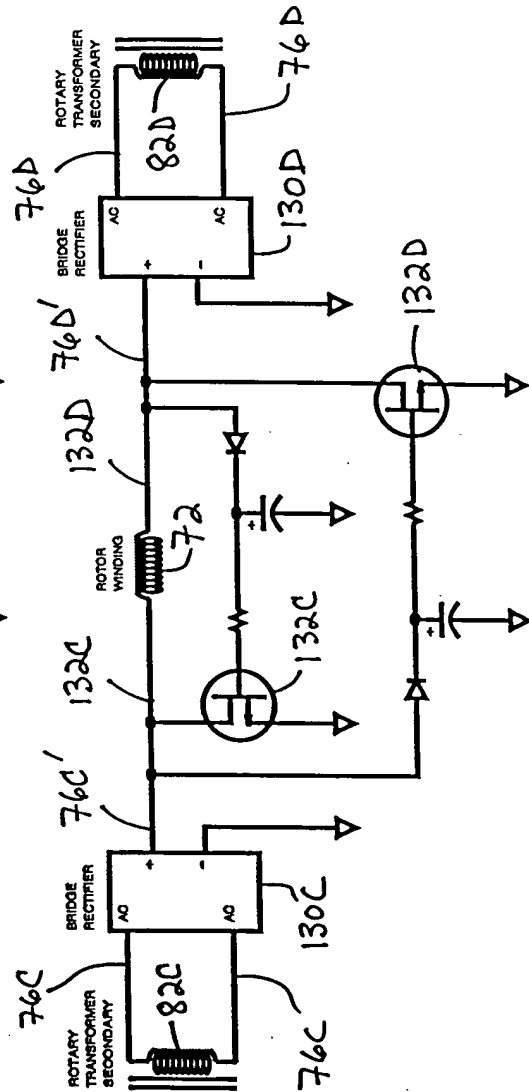
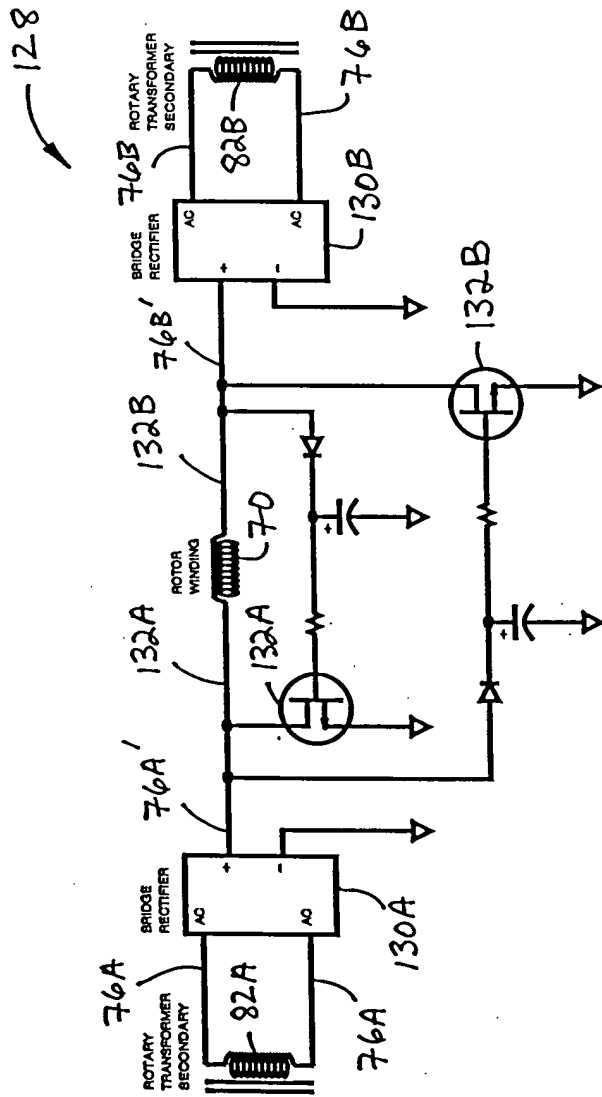
FIG. 8

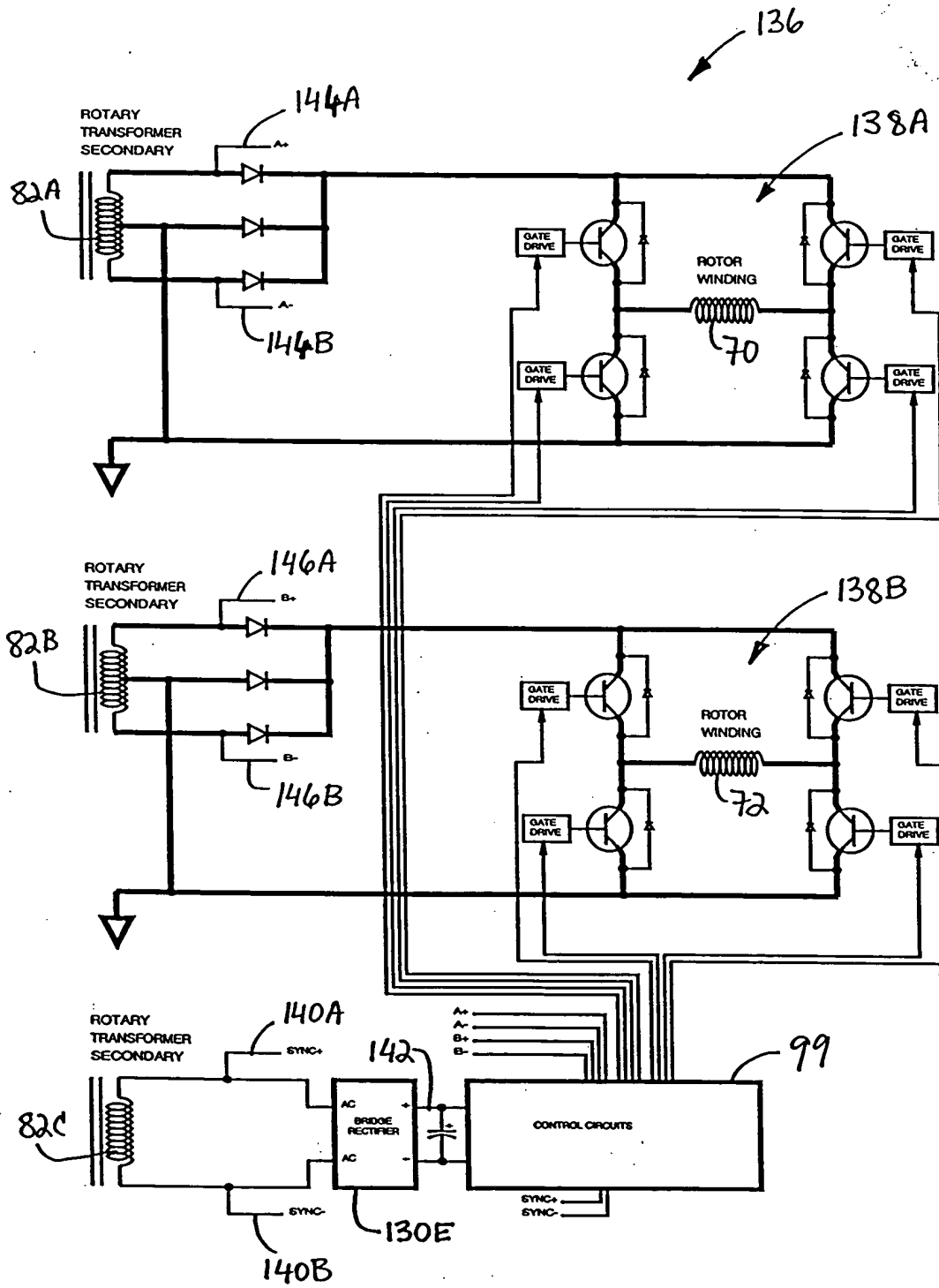




THREE-TRANSFORMER DRIVE TIMING DIAGRAM

FIG. 10





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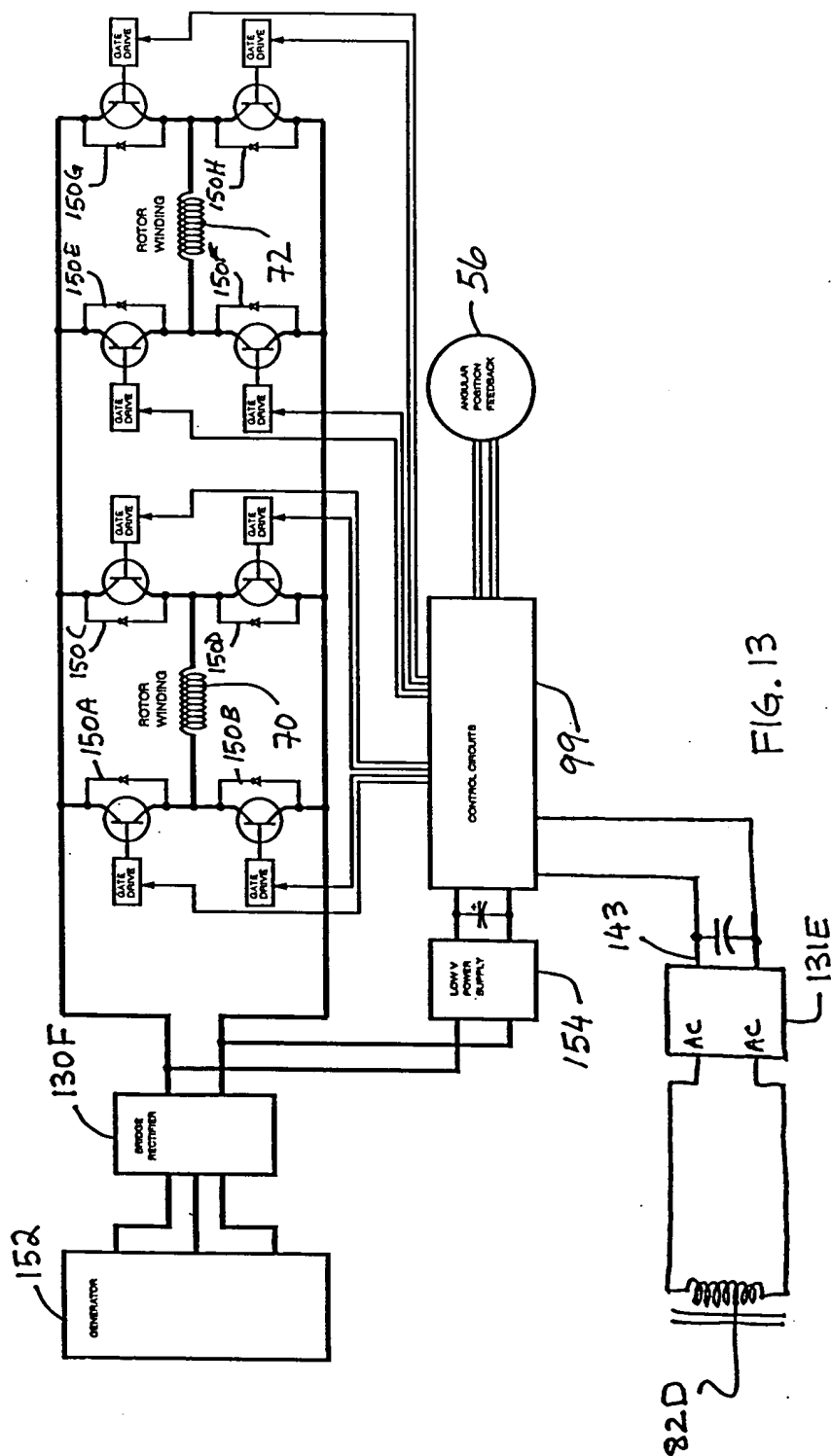
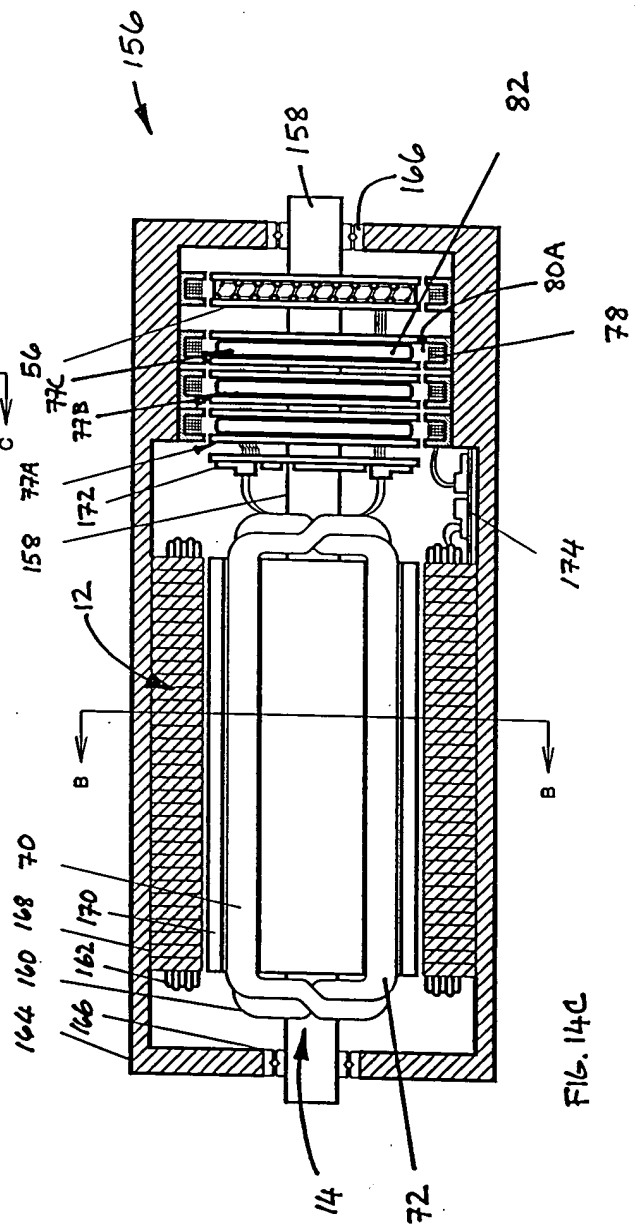
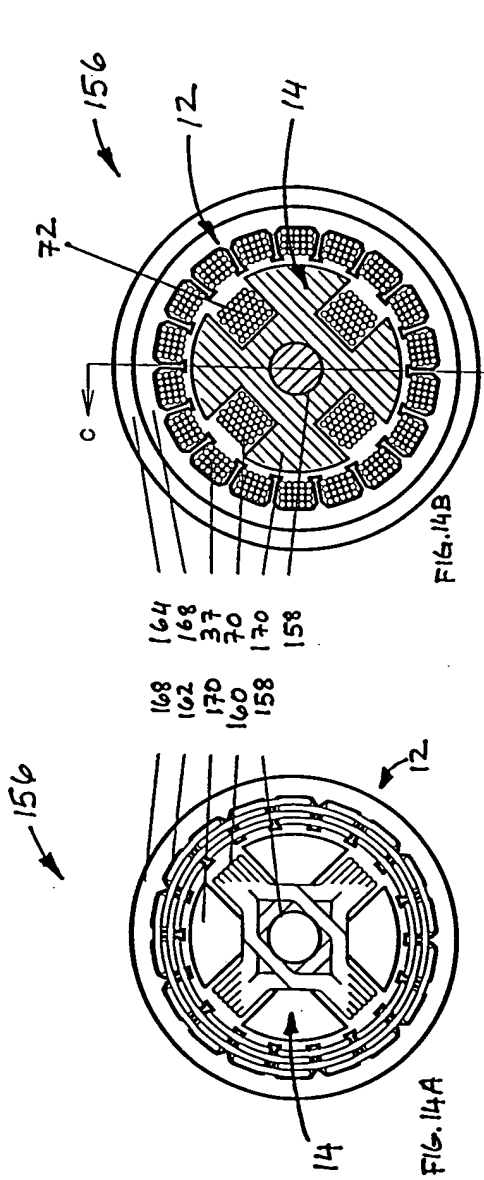
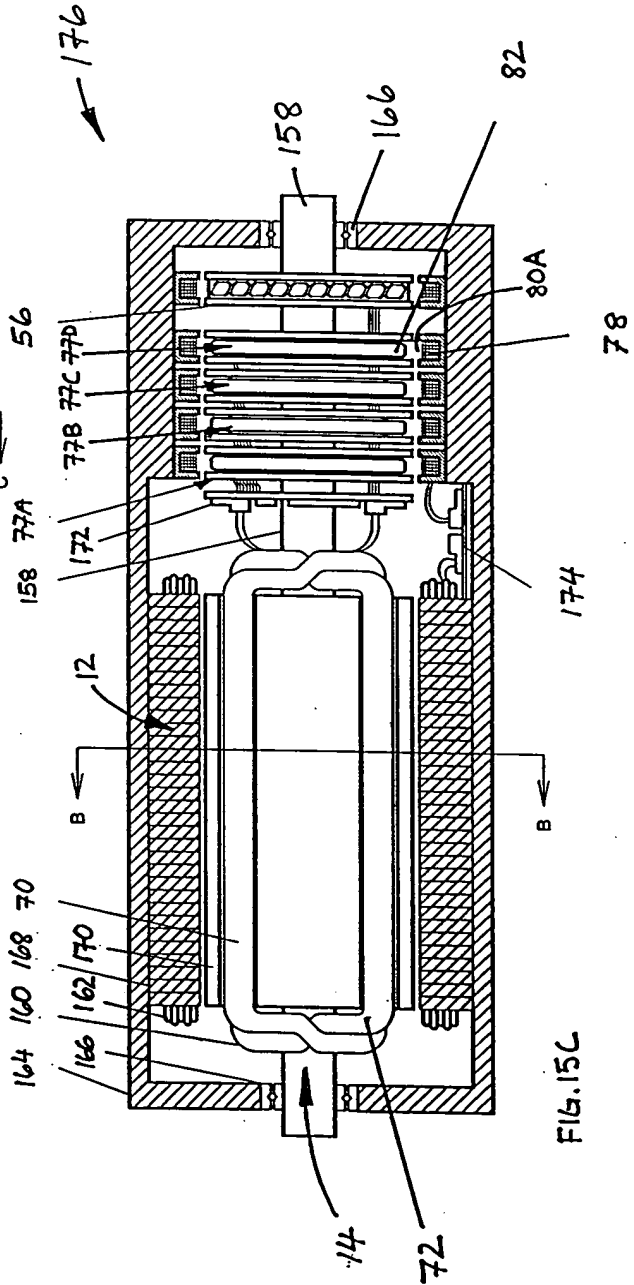
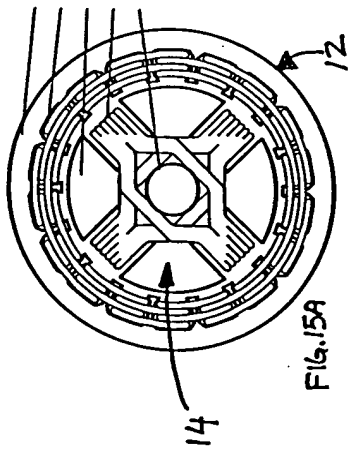
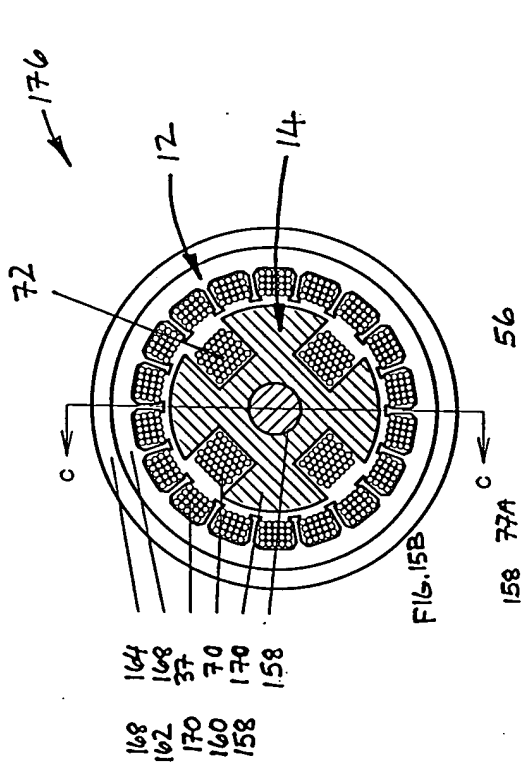
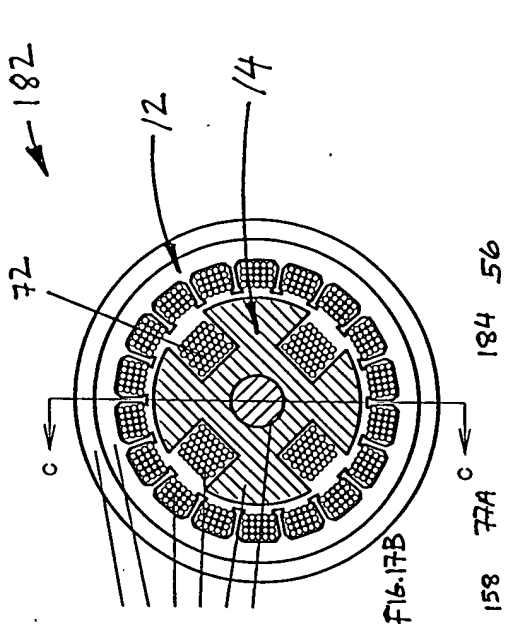


FIG. 13







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